

Name \_\_\_\_\_

# Ellipses

Date \_\_\_\_\_

**Find the foci, vertices, and co-vertices of each ellipse.**

1. $\frac{x^2}{36} + \frac{y^2}{25} = 1$	2. $\frac{x^2}{16} + \frac{y^2}{100} = 1$	3. $\frac{x^2}{196} + \frac{y^2}{9} = 1$
4. $\frac{x^2}{36} + \frac{y^2}{64} = 1$	5. $\frac{x^2}{25} + \frac{y^2}{4} = 1$	6. $\frac{x^2}{1} + \frac{y^2}{4} = 1$
7. $\frac{x^2}{25} + \frac{y^2}{144} = 1$	8. $\frac{x^2}{81} + \frac{y^2}{49} = 1$	9. $\frac{x^2}{1} + \frac{y^2}{49} = 1$
10. $\frac{x^2}{4} + \frac{y^2}{16} = 1$	11. $\frac{x^2}{225} + \frac{y^2}{100} = 1$	12. $\frac{x^2}{9} + \frac{y^2}{4} = 1$
13. $\frac{x^2}{25} + \frac{y^2}{169} = 1$	14. $\frac{x^2}{256} + \frac{y^2}{49} = 1$	15. $\frac{x^2}{121} + \frac{y^2}{64} = 1$
16. $\frac{x^2}{36} + \frac{y^2}{196} = 1$	17. $\frac{x^2}{9} + \frac{y^2}{144} = 1$	18. $\frac{x^2}{4} + \frac{y^2}{64} = 1$

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## Conics

(Answer ID # 0925248)

**Find the center, foci, vertices, and co-vertices of each ellipse.**

1. $\frac{(x + 8)^2}{100} + \frac{(y + 1)^2}{81} = 1$	2. $\frac{(x + 1)^2}{169} + \frac{(y - 3)^2}{4} = 1$	3. $\frac{(x + 6)^2}{36} + \frac{(y - 8)^2}{144} = 1$
4. $\frac{(x + 2)^2}{9} + \frac{(y - 2)^2}{196} = 1$	5. $\frac{(x + 4)^2}{100} + \frac{(y + 6)^2}{121} = 1$	6. $\frac{(x + 7)^2}{4} + \frac{(y - 4)^2}{1} = 1$
7. $\frac{(x - 5)^2}{49} + \frac{(y + 7)^2}{81} = 1$	8. $\frac{(x - 3)^2}{16} + \frac{(y + 5)^2}{36} = 1$	9. $\frac{(x + 5)^2}{4} + \frac{(y + 6)^2}{25} = 1$
10. $\frac{(x + 2)^2}{16} + \frac{(y - 2)^2}{1} = 1$	11. $\frac{(x - 6)^2}{9} + \frac{(y - 5)^2}{4} = 1$	12. $\frac{(x + 4)^2}{256} + \frac{(y + 8)^2}{25} = 1$
13. $\frac{(x + 7)^2}{49} + \frac{(y - 7)^2}{36} = 1$	14. $\frac{(x + 8)^2}{1} + \frac{(y - 1)^2}{64} = 1$	15. $\frac{(x - 1)^2}{64} + \frac{(y + 3)^2}{225} = 1$
16. $\frac{(x + 3)^2}{49} + \frac{(y + 4)^2}{100} = 1$	17. $\frac{(x - 7)^2}{256} + \frac{(y + 5)^2}{225} = 1$	18. $\frac{(x + 4)^2}{81} + \frac{(y + 4)^2}{16} = 1$